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valleys that run in the direction of the dip; *anaclinal*, valleys that run against the dip of the beds. Of the second order there are *anticlinal* valleys (Figure 66), which follow anticlinal axes; *synclinal* valleys (Figure 67), which follow synclinal axes; and *monoclinal* valleys, which run in the direction of the strike between the axes of the fold — one side of the valley formed of the summits of the beds, the other composed of the cut edges of the formation. This classification rests solely, the author adds, on typical examples, one form often running into another.

One who is quite ignorant of geology will find the report exceedingly interesting, while the professional geologist, in whose hands the volume has now been for over a year, has doubtless profited by its perusal.

DAVIES' PREPARATION AND MOUNTING OF MICROSCOPIC OBJECTS.¹ — As a brief and compact manual of the art of preparing and mounting microscopic objects we always supposed that the present one was probably the best. The second edition is a still more useful book, and has been specially adapted by the editor for the use of medical students and young practitioners. For general use, however, we can recommend it as a cheap and reliable book.

HUXLEY AND MARTIN'S BIOLOGY.² — A notice, by a most competent critic, of the first edition of this excellent manual appeared in the April number of the NATURALIST. This second edition is issued at a lower price, and contains a number of corrections and alterations, the pages having been entirely reset.

JORDAN'S MANUAL OF THE VERTEBRATES OF THE NORTHERN UNITED STATES.³ — To those desirous of a cheap manual for the ready identification of our land and fresh-water vertebrates, we should unhesitatingly recommend this book as well compiled and convenient, while the price makes it generally accessible. The characters of the classes and orders are much abbreviated, and the generic characters are confined to a key, "while for specific characters, only such points have been generally retained as are distinctive as well as descriptive." The classification is based on that of recent authors, and no important innovations seem to have been suggested by the author.

In order to test the part related to reptiles and batrachians we have identified several species, before unknown to us, with ease and certainty. The objection to such books as this is that the brief and condensed descriptions are apt to be unsatisfactory in critical cases, but as

¹ *The Preparation and Mounting of Microscopic Objects.* By THOMAS DAVIES. Second Edition, greatly enlarged. Edited by J. MATHEWS, M. D. New York: G. P., Putnam's Sons. 1876. 12mo, pp. 214. \$1.25.

² *A Course of Practical Instruction in Elementary Biology.* By T. H. HUXLEY, assisted by H. N. MARTIN. Second Edition, revised. London and New York: Macmillan & Co. 1876. \$2.00.

³ *Manual of the Vertebrates of the Northern United States.* Including the District east of the Mississippi River, and north of North Carolina and Tennessee, exclusive of Marine Species. By DAVID STARR JORDAN, M. S., M. D. Chicago: Jansen, McClurg, & Co. 1876. 12mo, pp. 342. \$2.00.

the author distinctly states that the manual is designed for "collectors and students who are not specialists," we do not see but that the object has been gained, and the plan very well carried out.

RECENT BOOKS AND PAMPHLETS. — Manuscript Notes from my Journal; or, Illustrations of Insects, Native and Foreign. Order Hemiptera, Suborder Heteroptera, or Plant-Bugs. By Townsend Glover. Washington. 1876. 4to, 10 Plates, pp. 132.

Report of Explorations across the Great Basin of the Territory of Utah for a Direct Wagon-Route from Camp Floyd to Genoa, in Carson Valley, in 1859. By Capt. J. H. Simpson, Corps of Topographical Engineers, U. S. A. Washington. 1876. 4to, pp. 518. With Map and Plates.

Report of the Exploring Expedition from Santa Fé, New Mexico, to the Junction of the Grand and Green Rivers of the Great Colorado of the West, in 1859, under the Command of Capt. J. N. Macomb. With Geological Report, by Prof. J. S. Newberry. U. S. Engineer Department. Washington, D. C. 1876. 4to, pp. 148. With Maps and Plates.

Geological Survey of Michigan, Lower Peninsula. Palæontology. Fossil Corals. By Dr. C. Rominger, State Geologist. (Advance Copy, unrevised by the Author.) New York: Julius Bien. 1876. 4to, pp. 132. With 10 Plates.

Le Helicopsyche in Italia. Lettera agli Entomologi Italiani di Carlo de Siebold. 8vo, pp. 10.

Report on the Geological Map of Massachusetts, prepared by W. O. Crosby, Prof. Alpheus Hyatt in Charge. Under the Direction of the Massachusetts Commission to the Centennial Exposition. Boston. 1876. 8vo, pp. 52.

Insects Injurious to the Potato and Apple. By Prof. G. H. Perkins, Ph. D. (From Third Report of State Board of Agriculture.) Rutland, Vt. 1876. 8vo, pp. 46.

Concerning the Fishes of the Ichthyologia Ohiensis. By David S. Jordan, M. S., M. D. (From the Bulletin of the Buffalo Society of Natural Sciences.) Buffalo. 1876. 8vo, pp. 7.

Hydrographic Sketch of Lake Titicaca. By Alexander Agassiz. (Reprinted from the Proceedings of the American Academy of Arts and Sciences, xi. 1876.) 8vo, pp. 9.

Exploration of Lake Titicaca. By Alexander Agassiz and S. W. Garman. III. List of Mammals and Birds. By J. A. Allen, with Field Notes by Mr. Garman. IV. Crustacea. By Walter Faxon. (Bulletin of the Museum of Comparative Zoölogy, iii. nos. 15 and 16.) July, 1876. 8vo, pp. 26.

On the Development of the Crustacean Embryo, and the Variations of Form exhibited in the Larvæ of Thirty-Eight Genera of Podophthalmia. By C. Spence Bate, F. R. S. (From the Proceedings of the Royal Society of London.) 8vo, pp. 4.

Die Aussern Lebensverhältnisse der Seethiere. Von Prof. Carl Moebius. 4to, pp. 4.

Check-List of Preparations and Objects in the Section of Human Anatomy of the United States Army Medical Museum. For use during the International Exhibition of 1876, in connection with the representation of the Medical Department United States Army. No. 8. By George A. Otis, M. D., U. S. A. Washington, D. C. 1876. 8vo, pp. 135.

Hat Man in den interglaciären Ablagerungen in der Schweiz wirkliche Spuren von Menschen gefunden oder nur Spuren von Bibern. Von J. Steenstrup. (From Archiv für Anthropologie.) 1876. 4to, pp. 4.

The Prehistoric Remains which were Found on the Site of the City of Cincinnati, Ohio, with a Vindication of the "Cincinnati Tablet." By Robert Clarke. Cincinnati. 1876. 8vo, pp. 34.